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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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7590 07/26/2005			EXAMINER	
Terry J. Stalford			PATEL, AJIT	
Baker Botts, L. Suite 600	L.P.		ART UNIT	PAPER NUMBER
2001 Ross Avenue			2664	
Dallas, TX 75	5067		DATE MAILED: 07/26/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/848,994	MO ET AL.			
Office Action Summary	Examiner	Art Unit			
	AJIT G. PATEL	2664			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 24 January 2005.					
2a)⊠ This action is FINAL . 2b)□ This	2a)⊠ This action is FINAL . 2b)□ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers		•			
9)☐ The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da	ate atent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:				

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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2. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Jacob W. Jorgensen (U.S 6,452,915) hereinafter referred to as Jacob.

Regarding claim 1, Jacob discloses a method for transporting traffic having disparate qualities of service across a packet-switch network, comprising: receiving at an ingress point (wireless base station 302 of Figure 2D) of a network a plurality of packets (flow packet from data network 142 of Figure 15 A) each comprising a quality of service (QoS) class defined externally to the network (lines 48-57, of column 50)., combining packets having a QOS class comprising delay bound guarantees and a low drop priority into a first internal QOS class (Latency-sensitive UDP priority 812a and high priority 812b in lines 43-51 of column 48)', combining packets having a QOS class comprising a flexible drop priority and no delay bound guarantees into a second internal QOS class (intermediate priority 812c, initial hypedext transfer protocol screens priority 812d and latency neutral priority 812e in lines 43-51 of column 48),. combining packets having a QOS class comprising no delivery guarantees into a third

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internal QOS class (file transfer protocol, simple mail transfer protocol, other e-mail traffic priority 812f and low priority 812g in lines 43-51 of column 48)', and transpoding the packets through the network based on their internal Qos classes (Frame scheduler 1550, 1552 and QOS class Queuing Processor 1562 of Figure 15A).

Regarding claim 2, Jacob discloses the first internal QOS class comprises a guaranteed service class, further comprising combining into the guaranteed service class packets having an externally defined integrated services guaranteed service QOS and a differentiated services expedited forwarding QOS (Latency-sensitive UDP priority 812a and high priority 812b provide low loss, low latency, low jitter and assured bandwidth end-to-end service).

Regarding claim 3, Jacob discloses the second internal QOS class comprises a control load class, further comprising combining into the control load class packets having an externally defined integrated services control load QOS and a differentiated services assured forwarding 1, 2 and 3 QOS (intermediate priority 812c, initial hypedext transfer protocol screens priority 812d and latency neutral priority 812e provide traffic with no delay bound and flexible drop priority in accordance with the corresponding defined service classes).

Regarding claim 4, Jacob discloses the third internal QOS class comprises a best-effod class, fudher comprising combining into the best-effort class packets having a differentiated services assured forwarding 4 QOS and a differentiated services best-effort QOS (file transfer protocol, simple mail transfer protocol,

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other e-mail traffic priority 812f and low priority 812g provide no latency limits or reservation).

Regarding claim 5, Jacob discloses the packets combined into the first internal QOS class comprise low latency delay-bound guarantees (lines 54-59 of column 48).

Regarding claim 6, Jacob discloses generating a label for each packet including the internal QOS class for the packet and transporting the packet through the network using the label (Subscriber ID 1234b and IP-Flow identifier 1234c of Figure 12E; and lines 50-58 of column 53).

Regarding claim 7, Jacob discloses the packets comprise internet protocol (IP) packets (lines 51-52 of column 47).

Regarding claims 8 and 9, Jacob discloses packets combined into the first internal QOS class comprise real-time data and real-time voice data (real-time data and voice data are very sensitive to delay and jitter, so it is obvious that Latency-sensitive UDP priority 812a and high priority 812b provide real-time data and voice data).

Regarding claim 10, Jacob discloses a system for transporing traffic having disparate qualities of service across a packet-switch network, comprising'. means for receiving at an ingress point (wireless base station 302 of Figure 2D) of a network a plurality of packets (flow packet from data network 142 of Figure 15A) each comprising a quality of service (QoS) class defined externally to the network (lines 52-62 of column 47)', means for combining packets having a QOS

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class comprising delay bound guarantees and a low drop priority into a first internal QOS class (IP flow analyzer 602 of Figure 8A; and Latency-sensitive UDP priority 812a, high priority 812b in lines 43-51 of column 48)*, means for combining packets having a QOS class comprising a flexible drop priority and no delay bound guarantees into a second internal QOS class (IP flow analyzer 602 of Figure 8A; and intermediate priority 812c, initial hypertext transfer protocol screens priority 812d and latency neutral priority 812e in lines 43-51 of column 48)*, means for combining packets having a QOS class comprising no delivery guarantees into a third internal QOS class (IP flow analyzer 602 of Figure 8A; and file transfer protocol, simple mail transfer protocol, other e-mail traffic priority 812f and low priority 812g in lines 43-51 of column 48)., and means for transporting the packets through the network based on their internal QOS classes (Frame scheduler 1550, 1552 and QOS class Queuing Processor 1562 of Figure 15A).

Regarding claim 1 1, Jacob discloses the first internal QOS class comprises a guaranteed service class, fudher comprising means for combining into the guaranteed service class packets having an externally defined integrated services guaranteed service QOS and a differentiated services expedited forwarding QOS (Latency-sensitive UDP priority 812a and high priority 812b provide low loss, low latency, low jitter and assured bandwidth end-to-end service).

Regarding claim 12, Jacob discloses the second internal QOS class comprises a control load class, further comprising means for combining into the

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control load class packets having an externally defined integrated services control load QOS and a differentiated services assured forwarding 1, 2 and 3 QOS (intermediate priority 812c, initial hypertext transfer protocol screens priority 812d and latency neutral priority 812e provide traffic with no delay bound and flexible drop priority in accordance with the corresponding defined service classes).

Regarding claim 13, Jacob discloses the third internal QOS class comprises a best-effod class, further comprising means for combining into the best-effod class packets having a differentiated services assured forwarding 4 QOS and a differentiated services best-effort QOS (file transfer protocol, simple mail transfer protocol, other e-mail traffic priority 812f and low priority 812g provide no latency limits or reservation).

Regarding claim 14, Jacob discloses the packets combined into the first internal QOS class comprise low latency delay-bound guarantees (lines 54-59 of column 48).

Regarding claim 15, Jacob discloses means for generating a label for each packet including the internal QOS class for the packet and transporting the packet through the network using the label (Subscriber ID 1234b and IP-Flow identifier 1234c of Figure 12E; and lines 50-58 of column 53).

Regarding claim 16, Jacob discloses the packets comprise internet protocol (IP) packets (lines 51-52 of column 47).

Regarding claims 17 and 18, Jacob discloses packets combined into the

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first internal QoS class comprise real-time data and voice data (real-time.data and voice data are very sensitive to delay and jitter, so it is obvious that Latency-sensitive UDP priority 812a and high priority 812b provide real-time data and voice data).

Regarding claim 19, Jacob discloses a system for transporting traffic having disparate qualities of servici across a packet-switch network, comprising: logic encoded in media (lines 10-26 of column 13)*, and the logic operable to receive (wireless base station 302 of Figure 2D) at an ingress point of a network a plurality of packets (flow packet from data network 142 of Figure 15A) each comprising a quality of service (QoS) class (lines 52-62 of column 47) defined externally to the network, to combine packets having a QOS class comprising delay-bound guarantees and a low drop priority into a first internal QOS class (Latency-sensitive UDP priority 812a, high priority 812b in lines 43-51 of column 48), to combine packets having a QOS class comprising a flexible drop priority and no delay bound into a second internal QOS class (intermediate priority 812c. initial hypedext transfer protocol screens priority 812d and latency neutral priority 812e in lines 43-51 of column 48), and to combine packets having a QOS class comprising no delivery guarantees into a third internal QOS class (IP flow analyzer 602 of Figure 8A; and file transfer protocol, simple mail transfer protocol, other e-mail traffic priority 812f and low priority 812g in lines 43-51 of column 48).

Regarding claim 20, Jacob discloses a local interface for a packet-

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switched network node, comprising: a port operable (wireless base station 302 of Figure 2D) to receive a plurality of packets (flow packet from data network 142 of Figure 15A) each comprising a quality of service (QoS) class (lines 52-62 of column 47) defined externally to a network of the node and to combined packets having QOS classes comprising delay-bound guarantees and a low drop priority ' into a first internal QOS class (Latency-sensitive UDP priority 812a, high priority 812b in lines 43-51 of column 48), to combine packets having a QOS class comprising a flexible-drop priority and no delay bound guarantees into a second internal QOS class (intermediate priority 812c, initial hypedext transfer protocol screens priority 812d and latency neutral priority 812e in lines 43-51 of column 48) and to combine packets having a QOS class comprising no delivery guarantees into a third QOS class (file transfer protocol, simple mail transfer protocol, other e-mail trame priority 812f and low priority 812g in lines 43-51 of column 48) and to buffer the packets in buffers corresponding to their internal QOS classes (QOS Class Queues 1564a-f of Figure 15B); and a scheduler operable to schedule transmission of the packets out of the buffers for transmission over the network based on their internal QOS class (Frame scheduler 1550, 1552 and QOS class Queuing Processor 1562 of Figure 15A).

3. Applicant's arguments filed 1/24/2005 have been fully considered but they are not persuasive. Applicant argued that Jorgensen fails to disclose a quality of service (QoS) class defined externally to the network. However, Jorgensen does discloses a

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quality of service (QoS) class defined externally to the network (see lines 48-57, col. 50). Therefore, the applicant's arguments is not persuasive.

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to AJIT G. PATEL whose telephone number is 571-272-3140. The examiner can normally be reached on MONDAY-THURSDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AP

Ajit Patel Primary Examiner